



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

25920 7590 05/19/2011

MARTINE PENILLA & GENCARELLA, LLP  
710 LAKEWAY DRIVE  
SUITE 200  
SUNNYVALE, CA 94085

EXAMINER

BENGZON, GREG C

ART UNIT

PAPER NUMBER

2444

DATE MAILED: 05/19/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/496,009	02/01/2000	Raymond W. Ellis	P.ASTGP123	5583

TITLE OF INVENTION: APPARATUS AND METHOD FOR WEB-BASED TOOL MANAGEMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$0	\$0	\$755	08/19/2011

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

**HOW TO REPLY TO THIS NOTICE:****I. Review the SMALL ENTITY status shown above.**

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

**II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.**

**III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.**

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

## PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to:** **Mail Stop ISSUE FEE**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, Virginia 22313-1450**  
**or Fax (571)-273-2885**

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

2590 7590 05/19/2011

**MARTINE PENILLA & GENCARELLA, LLP**  
**710 LAKEWAY DRIVE**  
**SUITE 200**  
**SUNNYVALE, CA 94085**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

### **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/496,009	02/01/2000	Raymond W. Ellis	P.ASTGP123	5583

TITLE OF INVENTION: APPARATUS AND METHOD FOR WEB-BASED TOOL MANAGEMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$0	\$0	\$755	08/19/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
BENGZON, GREG C	2444	709-223000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev.03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 \_\_\_\_\_  
2 \_\_\_\_\_  
3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent):  Individual  Corporation or other private group entity  Government

4a. The following fee(s) are submitted:

- Issue Fee  
 Publication Fee (No small entity discount permitted)  
 Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- A check is enclosed.  
 Payment by credit card. Form PTO-2038 is attached.  
 The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.  b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/496,009	02/01/2000	Raymond W. Ellis	P.ASTGP123	5583
25920	7590	05/19/2011	EXAMINER	
MARTINE PENILLA & GENCARELLA, LLP 710 LAKEWAY DRIVE SUITE 200 SUNNYVALE, CA 94085				BENGZON, GREG C
ART UNIT		PAPER NUMBER		
				2444

DATE MAILED: 05/19/2011

## Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## **Privacy Act Statement**

**The Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/496,009	ELLIS ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	GREG BENGZON	2444	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to PCE filed 03/28/2011.
2.  The allowed claim(s) is/are Claims 1,4-6,8,10,14-15,18-21,23,39-42,45,47-57 renumbered Claims 1-29 respectively.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All    b)  Some\*    c)  None    of the:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

/Greg Bengzon/  
Primary Examiner, Art Unit 2444

***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/28/2011 has been entered.

***Allowable Subject Matter***

Claims 1,4-6,8,10,14-15,18-21,23,39-42,45,47-57 are allowed.

The following is an examiner's statement of reasons for allowance:

The provision for -- a tool management method executed by a tool server apparatus coupled with a remote client system via a first network and coupled with a plurality of tools via a second network, each of the plurality of tools being physical tools used in a factory for transporting or processing semiconductor wafers, comprising:

*receiving a first request from the remote client system via the first network, the first request containing a uniform resource locator path including a function field and an object field, the object field and the function field identifying a tool object model for an identified tool, the tool object model providing a logical description for use in an automatic control environment of the factory and associated with the plurality of tools;*

*determining a function to be performed on the tool identified in said object field in said uniform resource locator path based on said function field in said uniform resource locator path;*

*in response to said first request, sending a first message to the tool identified in the object field in the uniform resource locator path via the second network, said first message is operable for initiating processing on the tool identified in the object field in the uniform resource locator path;*

*awaiting an initiate processing acknowledge from the tool;*

*upon receipt of said initiate processing acknowledge from the tool, awaiting an event report from the tool indicating completion of the action;*

*upon receipt of the event report, sending a message to the tool acknowledging the receipt of the event report; and*

*wherein the logical description provided by the tool object model enables the initiation of the processing and determination of physical parameters of the identified tool to determine when to initiate the processing;*

*wherein the sending of said first message is in response to execution of a first tool object method identified in said first request;*

*receiving a second request from the remote client system via the first network, said second request selected from the group consisting of information requests, expand requests and edit requests, wherein,*

*in response to said information requests, an HTML page is generated using a set of selected data for a tool object corresponding to a managed tool for sending to the*

remote client

in response to said edit request, an HTML page is generated having a portion operable for user entry of one or more values for modifying a tool object attribute for sending to the remote client system according to a second tool object method, and in response to said expand requests, an HTML page is generated using a set of child object names and relations to a parent object identified in said expand request for sending to the remote client system;

overriding said first or second tool object method;

wherein said overriding said first or second tool object method comprises: parsing a script source; determining if said script source includes a method signature matching a method signature of said first or second tool object method; and if so, executing a corresponding portion of said script source.

-- wherein all the features previously described are combined in one singular embodiment, is not fairly taught or suggested by the prior art of record.

The Examiner finds particular novelty in the tool management method capabilities as described in the Applicant Specification (Figure 3, Figure 7, Page 23-24, Page 33 Lines 5-20) wherein the said tool management method is able to execute tool object methods by sending *a uniform resource locator path including a function field and an object field,* (Page 24 Lx 10 thru Page 25 Lx 5) *the object field and the function field identifying a tool object model for an identified tool, the tool object model providing a*

*logical description for use in an automatic control environment of the factory and associated with the plurality of tools* and further receive and process requests consisting of information requests, expand requests and edit requests. In response to said information requests, an HTML page is generated using a set of selected data for a tool object corresponding to a managed tool for sending to the remote client. In response to said edit request, an HTML page is generated having a portion operable for user entry of one or more values for modifying a tool object attribute for sending to the remote client system according to a second tool object method. In response to said expand requests, an HTML page is generated using a set of child object names and relations to a parent object identified in said expand request for sending to the remote client system. Further the claimed method overrides said first or second tool object method by parsing a script source; (Page 33 Lines 5-20) determining if said script source includes a method signature matching a method signature of said first or second tool object method; (Page 34 Lines 5-20) and if so, executing a corresponding portion of said script source.

Rangachari disclosed (re. Claim 1) receiving a first request from the remote client system via the network; (see Rangachari, Col. 8, lines 43-46, Col. 9, lines 22-42, Col. 10, lines 45-51)

determining a function to be performed (see Rangachari, Col. 10, lines 52-64, Column 14 Lines 25-35) based at least in part on a first predetermined field contained in said first request; and

sending a first message to the tool in response to said first request and said first type, wherein said first message is operable for controlling an action of said tool (see Rangachari, Col. 6, lines 26-51, Col. 7, lines 20-24 and Col. 8, lines 17-20)

Rangachari disclosed a user interface that a user manipulates for automated control of the devices (Rangachari- Column 9 Lines 33-40, Column 10 Lines 35-60) via the Internet (Rangachari-Column 6 Lines 20-25).

However Rangachari does not disclose the combination of all the claim limitations including sending *a uniform resource locator path including a function field and an object field, the object field and the function field identifying a tool object model for an identified tool*. Rangachari does not disclose the combination of all the claim limitations including wherein *response to said information requests, an HTML page is generated using a set of selected data for a tool object corresponding to a managed tool for sending to the remote client; wherein in response to said edit request, an HTML page is generated having a portion operable for user entry of one or more values for modifying a tool object attribute for sending to the remote client system according to a second tool object method, and wherein in response to said expand requests, an HTML page is generated using a set of child object names and relations to a parent object identified in said expand request for sending to the remote client system*. Rangachari does not disclose the combination of all the claim limitations including *overriding said first or second tool object method by parsing a script source; determining if said script*

*source includes a method signature matching a method signature of said first or second tool object method; and if so, executing a corresponding portion of said script source.*

Haverstock disclosed (re. Claim 1) a server to respond to a URL requests containing action commands from a browser. Action commands and additional arguments are input into the URL. The server receives the request for the URL and processes the actions and arguments identified in the URL. (Haverstock-Column 3 Lines 10-20, Column 5 Lines 20-35)

However Haverstock does not disclose the combination of all the claim limitations including *a tool object model providing a logical description for use in an automatic control environment of the factory and associated with the plurality of tools wherein the logical description provided by the tool object model enables the initiation of the processing and determination of physical parameters of the identified tool to determine when to initiate the processing*. Haverstock does not disclose *awaiting an initiate processing acknowledge from the tool; and upon receipt of said initiate processing acknowledge from the tool, awaiting an event report from the tool indicating completion of the action; and upon receipt of the event report, sending a message to the tool acknowledging the receipt of the event report*.

Tadokoro disclosed (re. Claim 1) disclosed (re. Claim 1) the object field and the function field identifying a tool object model for an identified tool, (Tadokoro -Column 4 Lines 45-65) the tool object model providing a logical description for use in an

automatic control environment of the factory and associated with the plurality of tools; wherein the logical description provided by the tool object model enables the control of the action (Tadokoro -Column 4 Lines 45-65, Column 19 Lines 5-15) and determination of physical parameters of the identified tool to determine when to initiate the action.

(Tadokoro -Column 4 Lines 45-65, Column 26 Lines 45-65)

Tadokoro disclosed (re. Claim 1) awaiting an initiate processing acknowledge from the tool; upon receipt of said initiate processing acknowledge from the tool, awaiting an event report from the tool indicating completion of the action. (Tadokoro- Column 18 Lines 20 Lines 20-25, 'request status of virtual machine component', Column 19 Lines 50-55, ' VM responds with status indicating completion' )

However Tadokoro does not disclose the combination of all the claim limitations including sending *a uniform resource locator path including a function field and an object field, the object field and the function field identifying a tool object model for an identified tool*. Tadokoro does not disclose the combination of all the claim limitations including wherein *response to said information requests, an HTML page is generated using a set of selected data for a tool object corresponding to a managed tool for sending to the remote client; wherein in response to said edit request, an HTML page is generated having a portion operable for user entry of one or more values for modifying a tool object attribute for sending to the remote client system according to a second tool object method, and wherein in response to said expand requests, an HTML page is generated using a set of child object names and relations to a parent object identified in said expand request for sending to the remote client system*. Tadokoro does not

disclose the combination of all the claim limitations including *overriding said first or second tool object method by parsing a script source; determining if said script source includes a method signature matching a method signature of said first or second tool object method; and if so, executing a corresponding portion of said script source.*

Tenney provides a graphical programming environment that allows developers to create robotic control programs by dragging, dropping and connecting program steps or "objects". Tenney Column 6 Lines 40-55 disclosed remote method invocation (RMI) for transmitting control information between device and machines used in the semiconductor industry.

However Tenney does not disclose the combination of all the claim limitations including sending a *uniform resource locator path including a function field and an object field, the object field and the function field identifying a tool object model for an identified tool*. Tenney does not disclose the combination of all the claim limitations including wherein *response to said information requests, an HTML page is generated using a set of selected data for a tool object corresponding to a managed tool for sending to the remote client; wherein in response to said edit request, an HTML page is generated having a portion operable for user entry of one or more values for modifying a tool object attribute for sending to the remote client system according to a second tool object method, and wherein in response to said expand requests, an HTML page is generated using a set of child object names and relations to a parent object identified in said expand request for sending to the remote client system*. Tenney does not disclose the combination of all the claim limitations including *overriding said first or second tool*

*object method by parsing a script source; determining if said script source includes a method signature matching a method signature of said first or second tool object method; and if so, executing a corresponding portion of said script source.*

### ***Conclusion***

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GREG BENGZON whose telephone number is (571)272-3944. The examiner can normally be reached on Mon. thru Fri. 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Vaughn can be reached on (571)272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Greg Bengzon/  
Primary Examiner, Art Unit 2444